

National Aeronautics and Space Administration



## **NASA 2008 BLUE MARBLE AWARDS CEREMONY**



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Awards Ceremony  
September 22, 2008  
Newport News, Virginia  
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**NASA 2008 Blue Marble  
Awards Ceremony**

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# **NASA 2008 Blue Marble Awards Ceremony**

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NASA Headquarters Office of Infrastructure and Administration, Environmental Management Division (EMD) is pleased to present the 3rd annual Blue Marble Awards.

The Blue Marble Award program recognizes excellence demonstrated in environmental and energy management in support of NASA's mission and includes three award categories:

## **1. NASA Environmental Quality Award**

This award is presented to one individual and one group based on accomplishments made in greening the government, environmental management, conservation, environmental remediation, or environmental communication.

## **2. NASA Excellence in Energy and Water Management**

This award is presented to one individual and one group based on accomplishments made in energy efficiency, water conservation, or renewable energy.

## **3. NASA EMD Director's Environment and Energy**

This award is presented by the Director of EMD, Mr. James Leatherwood, in recognition of exceptional leadership and professionalism in implementing NASA's mission and vision of "understanding and protecting the home planet" and "improving the quality of life on Earth."

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**Special Award** - This informal award is given on an infrequent basis to recognize the special efforts of individuals that may not otherwise receive recognition for their efforts.

Please join us in congratulating the 2008 award winners during this awards ceremony.

**Olga M. Dominguez**

Environmental Executive and Assistant Administrator  
Office of Infrastructure and Administration

**James Leatherwood**

Director  
Environmental Management Division

## Category I

### NASA Environmental Quality Group Award

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#### **Constellation Programmatic Environmental Impact Statement Team**

Johnson Space Center

Dr. Jennifer Rhatigan, Team Lead

In recognition of an exemplary team effort to identify, assess, document, and communicate potential environmental impacts associated with the Constellation Program in support of NASA's Exploration Initiative.

#### **NASA Team Members**

Mark Batkin, NCS

Frank Bellinger, NCS

Mario Busacca, NCS

Kathleen Callister, NCS

Francis Celino, NCS

John Connolly, NCS

Daniel Czelusniak, SAIC

Glen Curtis, ATS

Timothy Davis, NCS

Lawrence DeFillipo, SAIC

Roger Ferguson, NCS

Dennis Ford, SAIC

Daniel Gallagher, SAIC

Ruth Gardner, NCS

Steve Glover, NCS

David Gosen, ATS

Marissa Herron, NCS

Donna Holland, NCS

David Hughes, USA

James Johnson, SAIC

Richard Kalynchuk, SAIC

Carolyn Kennedy, NCS

Charles W. Kilgore, NCS

Kran Kilpatrick, NCS

Trudy Kortess, NCS

Kenneth Kumor, NCS

Robert F. Lallier, Jr., NCS

Dan Morgan, NCS

Lizabeth Montgomery, NCS

Richard Mrozinski, NCS

Timothy Mueller, LMC

Barbara Naylor, NCS

Tina Norwood, NCS

Douglas Outlaw, SAIC

Jennifer Rhatigan, NCS

Victoria Ryan, NCS

Michael See, NCS

Richard Smith, USA

David Stewart, NCS

Burt Summerfield, NCS

Daniel Swords, LMC

Bruce Vu, NCS

Kenneth Walsh, SAIC

Lasantha Wedande, SAIC

David Williamson, UTC

Richard Wickman, NCS

NCS= NASA Civil Servant

SAIC= Science Applications International Corporation

ATS= Alliant Techsystems

USA= United Space Alliance

LMC=Lockheed Martin Corporation

UTC= Universal Technology Corporation

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## **NASA Environmental Quality Group Award Constellation Programmatic Environmental Impact Statement Team**

Johnson Space Center

Dr. Jennifer Rhatigan, Team Lead

### *Constellation Programmatic Environmental Impact Statement Development*

The National Environmental Policy Act (NEPA) requires Federal agencies to prepare an Environmental Impact Statement for major Federal actions that may significantly affect the quality of the human environment. Federal agencies must consider potential environmental impacts of their proposed actions before deciding whether and how to proceed. The Constellation Programmatic Environmental Impact Statement (Cx PEIS) Team developed a comprehensive PEIS in support of NASA's decision process for deciding whether to continue with plans for the Constellation Program. The PEIS examines the effects of development, testing, and operation of spacecraft and support systems associated with Constellation Program activities through the early 2020s. The Constellation Program components addressed in the PEIS include the Orion crew exploration vehicle, the Ares I crew launch vehicle, the Ares V cargo launch vehicle, the Lunar Lander and other cargo systems, and associated Ground Operations and Mission Operations. This cross-Agency NASA civil servant and contractor team developed this high-quality NEPA document within budget and well ahead of schedule while exceeding management expectations, attracting limited and largely positive public comment, and receiving the U.S. Environmental Protection Agency's highest rating for a NEPA document.

The Cx PEIS NEPA process will serve as a benchmark for future NASA programmatic NEPA analyses and clearly demonstrates how a balance between mission, environmental compliance, and environmental stewardship can complement one another. The programmatic approach adopted by the Cx PEIS team will help ensure the least amount of environmental risk to mission dollars and resources. Over the next decade, the Cx PEIS will be the cornerstone for many yet-to-be-defined Constellation NEPA analyses.

Category I

**NASA Environmental Quality Individual Award**

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**Radel L. Bunker-Farrah**

Environmental Program Manager, White Sands Test Facility

In recognition of exceptional leadership, unparalleled commitment, and exemplary contributions to the White Sands Test Facility Environmental Program



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## **Radel L. Bunker-Farrah**

Environmental Program Manager, White Sands Test Facility (WSTF)

### *Exceptional Management of the WSTF Environmental Program*

Ms. Bunker-Farrah has done an exceptional job of managing the WSTF Environmental Program. She has increased sustainability awareness through many programs including the WSTF Energy Management Program, Hazardous Materials Management, Environmental Stewardship, and Resource Conservation, Affirmative Procurement, Pollution Prevention, Recycling and Waste Minimization.

Through Ms. Bunker-Farrah's outstanding leadership, WSTF's Environmental Management System has flourished and has maintained certification to ISO 2004:14001. The aspects, objectives, and targets are reviewed annually and performance is monitored to ensure that continuous improvement is realized.

Ms. Bunker-Farrah. has fostered an excellent working relationship with the New Mexico Environmental Department (NMED). She was instrumental in negotiating a settlement with NMED that saved WSTF hundreds of thousands of dollars. She continues to spend many hours maintaining that relationship to aid in negotiations on the RCRA permit renewal.

Ms. Bunker-Farrah's diligence in maintaining documentation and making meticulous preparations enabled WSTF to receive a "100" from an Environmental Protection Agency (EPA) inspector. WSTF was the second facility to receive this score.

Category II

## **NASA Excellence In Energy & Water Management Group Award**

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### **JPL Facilities Energy Team**

Jet Propulsion Laboratory

Matthew Berbee, Team Lead

For Excellence in Energy Conservation as recognized by the State of California and the Association of Energy Engineers

### **Team Members**

George Beck, NASA Civil Servant

Matthew Berbee, Caltech

Susan Welch, NASA Civil Servant

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## **NASA Excellence in Energy and Water Management Group Award**

### **JPL Facilities Energy Team**

Jet Propulsion Laboratory

Matthew Berbee, Team Lead

#### *The JPL Energy Management Program*

In 2007, the JPL Energy Program was recognized by the Southern California Edison (SCE) electric company as having a significant influence in California. SCE honored the program with a published case study and provided forums for the JPL Energy Manager, Matthew Berbee, to meet with other large customers in California to discuss energy management and program development. Mr. Berbee was subsequently provided a seat on the California Energy Commission Review Committee.

Additionally, in FY 2007, NASA/JPL was honored by the Association of Energy Engineers (AEE). JPL won the National Award for having the highest achieving energy program in region V, which covers the entire western United States. Further, the JPL Energy Manager received the Special Lifetime Recognition from AEE —“Legends in Energy.”

Category II

**NASA Excellence in Energy and Water Management Individual  
Award**

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**Mr. Bruce Chesson**

Center Export Administrator

Kennedy Space Center

In recognition of dedication and commitment to excellence in the  
alternative fuel vehicle program

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## **NASA Excellence in Energy and Water Management Individual Award**

### **Mr. Bruce Chesson**

Center Export Administrator  
Kennedy Space Center

*Energy Conservation and environmental awareness for Government transportation*

Mr. Bruce Chesson's participation on KSC's behalf has greatly improved the overall goals for the Agency. Over the last several years, KSC has met the goals of Executive Order (EO) 13423. KSC has vastly improved the reduction of petroleum use for vehicles and greatly increased the use of alternative fuels. KSC's participation with alternative-powered vehicles has resulted in private companies requesting to exhibit their vehicles on the Center and make them available as modes of transportation resulting in a greater awareness and education in the availability and use of these vehicles. KSC operates 535 flex-fuel (E-85), 123 CNG, and 144 B20 vehicles. NASA Transportation has introduced low-speed electric cars, which are now supporting LC-39 launch pads, Solid Rocket Booster stacking group, and the Crane Operations group that supports both the Vehicle Assembly Building, and Orbiter Processing Facility high cranes. KSC wrote a Space Act Agreement (SAA) to obtain three all-electric, high-speed vehicles. These vehicles have been used all around KSC and have helped reduce the use of petroleum.

Mr. Chesson started an education program, placing informative articles in the electronic KSC Daily News and the Center's weekly newspaper and holding an AFV auto show for Environmental and Energy Awareness Week. Mr. Chesson has taken his education to the community, supporting Clean Cities and Clean Air events. He has showcased KSC efforts to Orange, Volusia, and Brevard Counties, supported the Governor's conference on clean energy, and Florida's Farm-to-Fuel initiative to produce and supply ethanol to the state of Florida. Mr. Chesson worked with the

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Florida Department of Transportation to add E-85 to the Florida Turnpike Authority plazas, which has begun work to add E-85 to three of the eight plazas (six stations). They will also add electric charging stations to use low-speed electric vehicles around their plazas that allow for charging of high-speed electric vehicles as well. Mr. Chesson has been able to obtain the loan of a Honda hydrogen fuel cell-powered (FCX) vehicle to demonstrate the use of the latest technology in vehicle transportation. KSC logged 1049 miles during the FCX demonstration.

Mr. Chesson developed several SAAs with Honda Motor Corporation, Bavarian Motor Works, and Hybrid Technologies, Inc., to collaborate and provide hydrogen-powered fuel cell and lithium-powered electric automobiles for demonstration, test, and evaluation at KSC. These agreements have proved very educational to the KSC workforce, and information shared with the company has led to improved technology for future AFVs. Mr. Chesson further dedicates himself by looking for other new, innovative means in the general commercial sector for making the Agency as green as possible. Mr. Chesson's efforts to educate the public included providing pamphlets and other educational material to those interested in the environment and displaying the AFVs at local community car shows.

**KSC Environmental Assurance & Promotion of Sustainable Practices in Construction & Demolition Activities**

Kennedy Space Center

John Shaffer, Team Lead

In recognition of the Team's comprehensive approach to managing environmental risks, promoting sustainable practices, and achieving cost savings in construction and demolition activities at KSC

**NASA Team Members**

Janet Bethay, Contractor  
Rebecca Bolt, Contractor  
Rodney Brown, NCS  
Leo De Cesare, NCS  
Christopher Cronwell, Contractor  
Frank Der, NCS  
Samantha Dunscombe, Contractor  
Doug Durham, NCS  
Maggie Forbes, NCS  
Christopher Grubbe, NCS  
Patricia Hall, Contractor  
Daniel Hull, NCS  
Jalane Johnson, NCS  
Lori Jones, NCS  
Justin Junod, NCS  
Traci Just, NCS  
Bruce Kinnaird, NCS  
Francis Kline, NCS  
Howard Lester, NCS  
Patricia Lynn, NCS  
Kimberly Manguikian, NCS  
John Matthews, NCS  
Pauletta McGinnis, NCS  
Bruce McBride, NCS  
Hien Nguyen, NCS  
Ismael Otero, NCS  
Steven Peterson, NCS

Thomas Pino, NCS  
Daniel Rembert, Contractor  
Linda Ranow, NCS  
Nicholas Riveccio, NCS  
Jason Ritter, NCS  
Lisa Ruffe, Contractor  
Edsel Sanchez, NCS  
Eli Schoen, NCS  
John Shaffer, NCS  
Alice Smith, NCS  
Scott Stilwell, NCS  
Denise Thaller, NCS  
Daniel Tweed, NCS  
Stephanie Weiss, Contractor  
Thomas Wilczek, NCS  
Doug Younger, NCS  
Ping Yu, NCS

\*\* NCS= NASA Civil Servant

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## **NASA EMD Director's Environment and Energy Group Award**

### **KSC Environmental Assurance & Promotion of Sustainable Practices in Construction & Demolition Activities**

Kennedy Space Center

John Shaffer, Team Lead

Anticipating significant increases in facility construction, modification, and demolition necessary to prepare for and implement the Constellation Program, the EPB began to increase focus and efforts to partner with KSC Construction of Facilities (Coff) and Procurement staff to identify and address environmental compliance risk associated with increased construction efforts. Since this effort involved multiple organizations with different budgets, schedules, and priorities, there were significant challenges in communication, continuous expanded scope of effort, and associated resource requirements. Over time, and with increased EPB resources, the KSC construction support effort has expanded to support all phases of construction contracting, planning, design, and implementation. Environmental management and compliance in construction continues to be a high priority aspect reflected in KSC's Environmental Management System.

Given the dramatic increase in construction/demolition activities from institutional, Shuttle Transition, and Constellation Program development, the EPB modified existing resources and approaches to assure environmental compliance and sustainable practices in all phases of construction design, planning, and implementation. This strategic approach recognized the need for dedicated and committed partnering, particularly with the KSC Coff staff. This approach began with updating and customizing the environmental contract clauses used to emphasize key contract priorities. Efforts then focused on participating in all Coff project design reviews to assure a comprehensive environmental review and early identification of all environmental regulatory requirements and desired sustainability options. The need for continual improvement, modification, and revision posed challenges in communication and implementation but resulted in outstanding tangible and intangible successes. Although difficult at times, the willingness to adapt and refine the approach has been key in addressing and managing the unique risks arising from fundamental differences in contractual relationships, environmental sophistication and awareness on part of contractors, and the transitory nature of construction versus operational activities.



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This model approach required a collaborative effort involving all key players—KSC civil servants, contractors, subcontractors, and Florida State environmental regulatory agencies—to identify appropriate methods, practices, and resources at KSC to support environmental compliance and sustainable practices in construction activities. The approach began to yield significant results when KSC management invested in additional, dedicated resources to actively participate in facility design reviews and facilitate the interface between the KSC Coff and environmental organizations. This leveraging of resources among organizations helped create a natural alignment in meeting common/mutual goals and has resulted in a teaming approach which emphasizes early consultation and problem solving. Also key are the personal interactions which explain and assure that the existing processes are understood and implemented.

### **KSC Construction Support Model's Five Key Principles:**

- Actively Manage Environmental Risks
- Effective Partnering
- Strategic Approach: Identify Objectives, Set Priorities and Refine Approach
- Integration of Environmental, Construction, and Contracting Efforts
- Build on Success

Category III

**NASA EMD Director's Environment and Energy Individual  
Award**

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**Richard A. Wickman**

Former Deputy Director of the Environmental Management Division  
Headquarters

In recognition of the Mr. Wickman's outstanding contribution to the  
Environmental Management Division

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## **NASA Director's Environmental Individual Award**

### **Richard A. Wickman**

As Deputy Director, Mr. Wickman ensured alignment between the Division's goals and objectives with the agency vision, mission, and strategic goals. He helped plan and coordinate planning retreats that led to the adoption of the Division's three new strategic centers of gravity (direct support to mission, proactive risk mitigation, and protection of mission resources). He ensured visibility of the Division's contribution to mission success by integrating these strategic centers of gravity into the 2006 NASA strategic plan.

Mr. Wickman demonstrated exceptional collaboration and teaming skills. He collaborated with DOD, DOE, and EPA to propose needed improvements to EPA's IRIS risk assessment process for emerging contaminants. Further, he supported PA&E in a quick-turnaround review of Headquarters and Center Strategic Investment Initiative proposal abstracts and represented I&A interests in OCE-sponsored NPR 7120.5 revision. He continued a successful ongoing partnership with the Facilities Engineering and Real Property Division (FERDP) on sustainable design, leading to NASA signing the Federal MOA on High-Performance Buildings and completion of NASA's first two LEED-certified buildings, one of which was designated as a Federal Energy Showcase.

Mr. Wickman exhibited extraordinary skill in communicating NASA's interests in the controversial health risk assessment and proposed regulation of perchlorate. By responding to the Natural Resources Defense Council (NRDC) FOIA request in an open, direct, and timely manner, Mr. Wickman helped avoid entangling NASA in NRDC's resulting lawsuit against DOD, EPA, and other agencies. Mr. Wickman expertly communicated NASA's exemplary performance in environmental, energy, and transportation management to OMB and helped the Agency receive scorecard ratings that were among the highest of all Federal agencies. He effectively communicated the new requirements of the Energy Policy Act

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of 2005 at the NASA Facilities O&M workshop and provided insightful management-level review of numerous public communications materials developed in support of JPL groundwater cleanup project and PBRF decommissioning project.

Mr. Wickman completed a highly effective and successful 8-1/2 month detail assignment as the Office of Infrastructure and Administration (I&A) liaison to the Constellation (Cx) Program Office at Johnson Space Center. The purpose of the detail was to assist the Cx Program in addressing the infrastructure needs of the program during the development phase as critical real and personal property assets are transitioned from the Space Shuttle Program to Constellation.

In addition to his many accomplishments as Deputy Director, Mr. Wickman was also recognized this year with a Headquarters Honor Award for his exceptional performance as Acting Director from May 2003 to June 2004.

Category III  
**Special Awards**

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**Merilee Fellows**

NASA Manager for Community Involvement for Environmental  
Remediation Jet Propulsion Laboratory

*Risk Communications*

In recognition of her support not only to the JPL and SSFL Remediation Projects, but also to the Agency at large, in developing a meaningful and effective environmental risk communications and community relations effort.

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**Sandra Parker**

Senior Environmental Scientist

Johnson Space Center

*Attwater's Prairie Chicken Endangered Species Recovery Project*

In recognition of her environmental leadership in establishing a unique partnership with the Houston Zoo to preserve the Attwater's Prairie Chicken for future generations.

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**Operating with the Environment in Mind.**